

**Abstract:** An electromagnetic interference (EMI) measuring method and its system for diagnosing EMI of various electronic devices and instructing user to improve design to satisfy Electromagnetic Compatibility (EMC) criterion. The measuring method according to the present invention includes acquiring a set of time domain signal waveforms from a group of uniformly distributed test points on equipment under test (EUT), and then processing, converting, comparing and analysing, and finally determining physical position of EMI on EUT. To implement the present method, the present invention provides an EMI measuring system. The system includes signal acquisition portion and signal analysis portion. The signal analysis portion takes computer as carrier, which establishes processing, converting, comparing and analysing modules on operating system platform of computer. The method steps and system structure according to the present invention are simple and convenient which are no restricted by ambience and the measuring result is reliable.